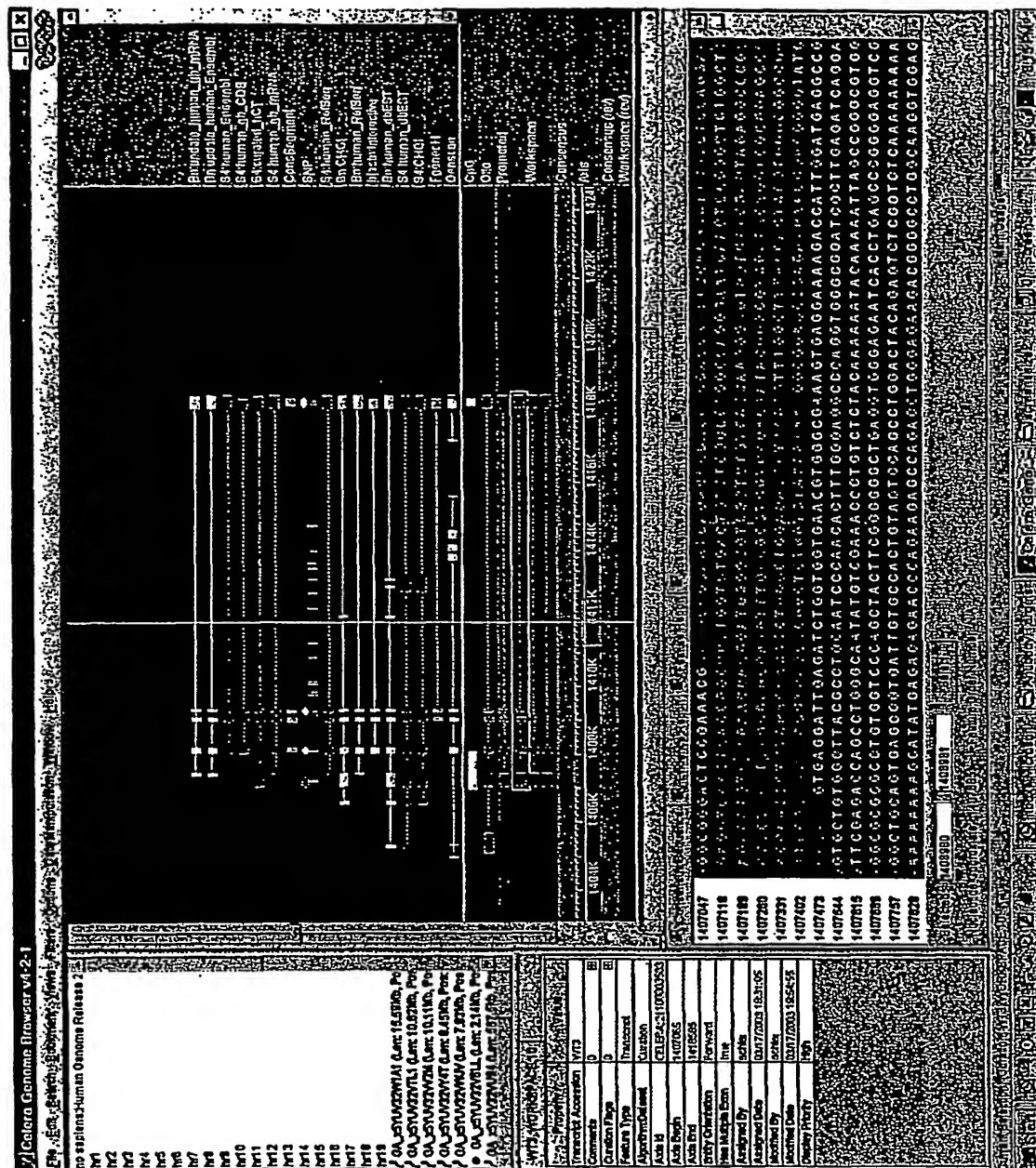


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Alignment of celera DKKL1 transcript with novel splice variants



transcript alignment for novel isoforms of DKK1

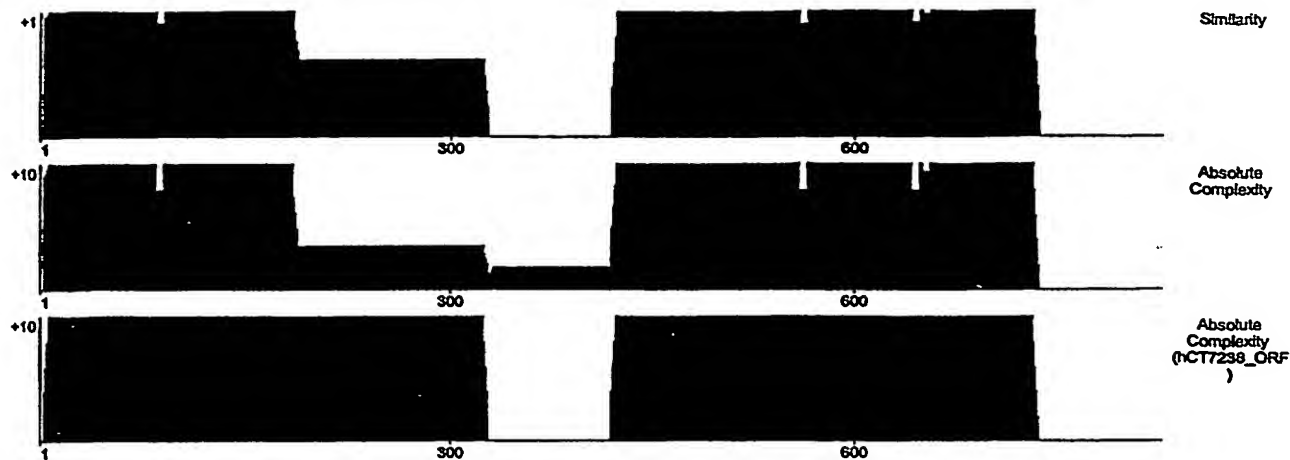


FIG. 2

transcript alignment for novel isoforms of DKKL1

										Section 1
										1 10 20 30 40 50 64
hCT7238 ORF	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
sqrs0379-stop	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R6	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R7	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R3	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS2	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R8	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS3	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R4	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R5	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R2	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS7	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS4	(1)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
										Section 2
										65 70 80 90 100 110 128
hCT7238 ORF	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
sqrs0379-stop	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R6	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R7	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R3	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS2	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R8	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS3	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R4	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R5	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R2	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS7	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS4	(61)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
										Section 3
										129 140 150 160 170 180 192
hCT7238 ORF	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
sqrs0379-stop	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R6	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R7	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R3	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS2	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R8	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS3	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R4	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R5	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-R2	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS7	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							
clone-379-RS4	(125)	---	ATGGGAGAAGCCTCCGAGCTGCCCCCGAAGCCGAGCTGAGGAGCTGAGGAGCTG							

FIG. 3A

- Section 4

Section 5

– Section 6

	(321)	321	330	340	350	360	370	384
hCT7238 ORF	(317)		AGGACCGACAACAAGACAGGAGAGGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT					
sqrs0379-stop	(321)		ATGACCGACAACAAGACAGGAGAGGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT					
clone-379-R6	(321)		ATGACCGACAACAAGACAGGAGAGGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT					
clone-379-R7	(321)		ATGACCGACAACAAGACAGGAGAGGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT					
clone-379-R3	(321)		ATGACCGACAACAAGACAGGAGAGGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT					
clone-379-RS2	(321)		ATGACCGACAACAAGACAGGAGAGGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT					
clone-379-R8	(321)		G					
clone-379-RS3	(321)		G					
clone-379-R4	(189)							
clone-379-R5	(189)							
clone-379-R2	(189)							
clone-379-RS7	(189)							
clone-379-RS4	(189)							

FIG. 3B

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transcript alignment for novel isoforms of DKKL1

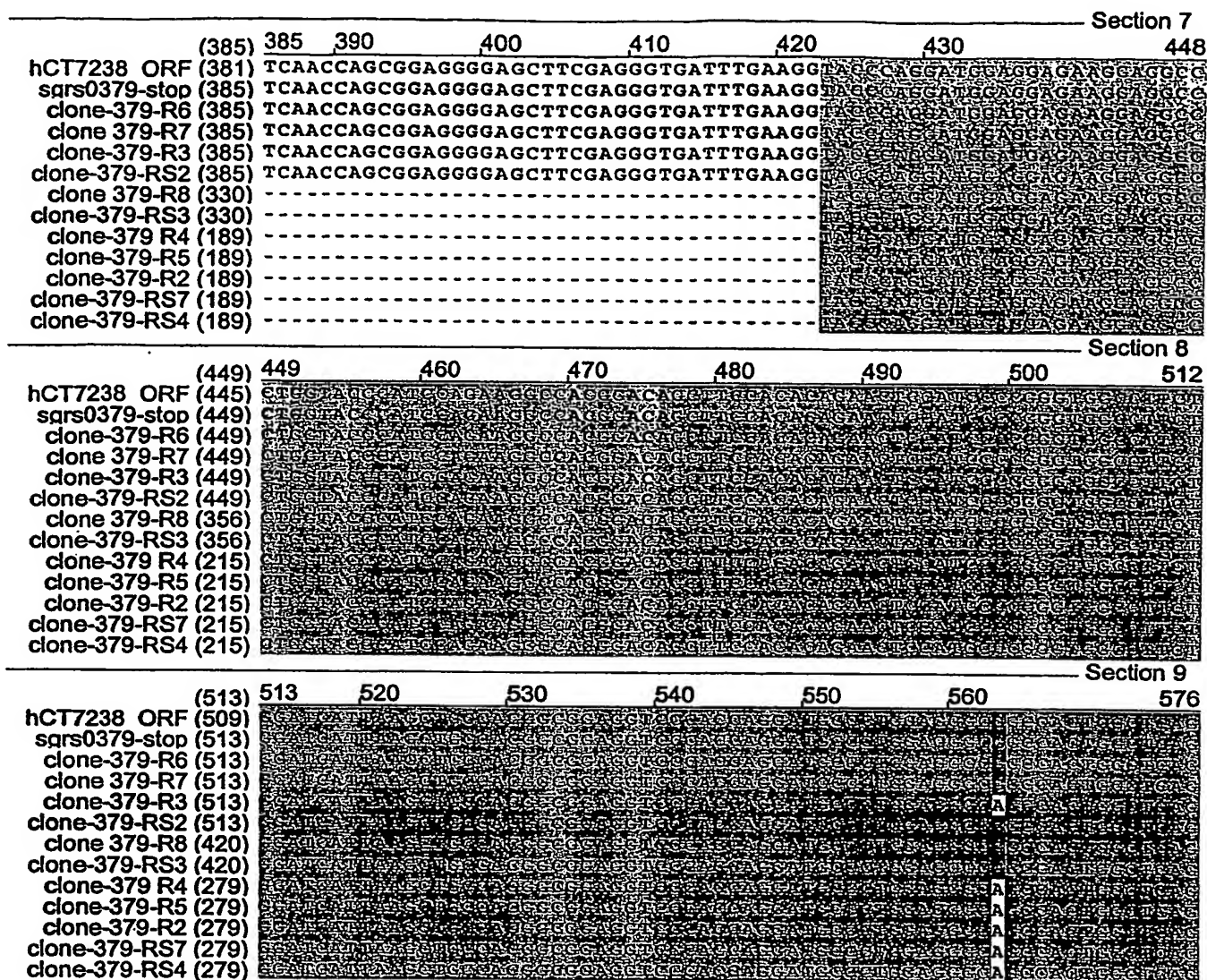


FIG. 3C

[illegible]

FIG. 3D

transcript alignment for novel isoforms of DKKL1

Section 13

	(769)	769	780	790	800	810	823
hCT7238 ORF (765)		ATCAGACCCTGCCCCAAGCACCATATGGAAATAAAGTTCTTTCTTACATCTAACA					
sars0379-stop (734)		-----					
clone-379-R6 (734)		-----					
clone-379-R7 (734)		-----					
clone-379-R3 (734)		-----					
clone-379-RS2 (734)		-----					
clone-379-R8 (641)		-----					
clone-379-RS3 (641)		-----					
clone-379 R4 (500)		-----					
clone-379-R5 (500)		-----					
clone-379-R2 (500)		-----					
clone-379-RS7 (500)		-----					
clone-379-RS4 (500)		-----					

FIG. 3E

protein alignment for novel isoforms of DKKL1

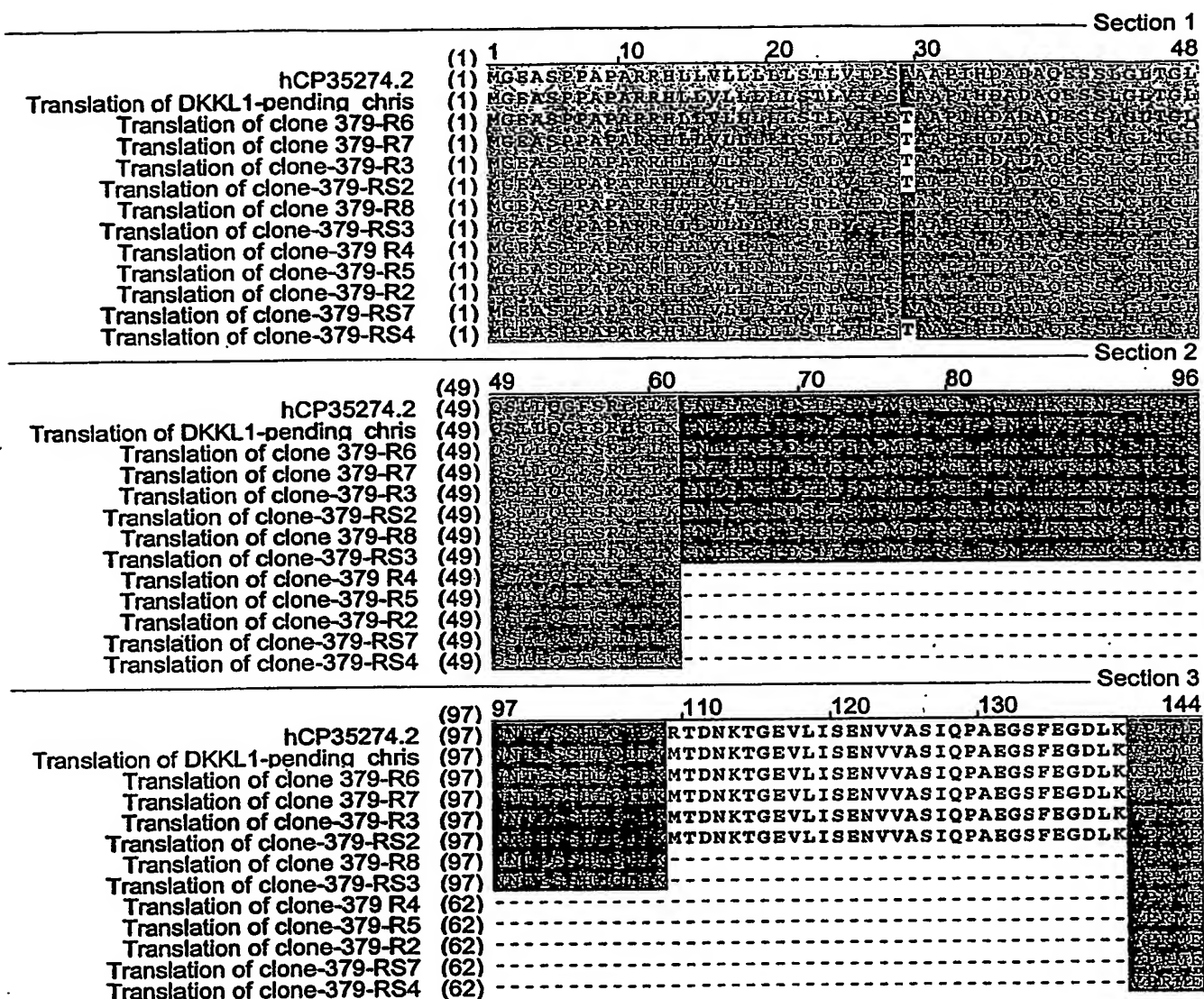


FIG. 4A

protein alignment for novel isoforms of DKKL1

		Section 4						
		(145)	145	150	160	170	180	192
hCP35274.2 (145)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of DKKL1-pending chris (145)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R6 (145)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R7 (145)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R3 (145)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS2 (145)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R8 (114)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS3 (114)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379 R4 (67)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R5 (67)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R2 (67)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS7 (67)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS4 (67)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
		Section 5						
		(193)	193	200	210	220	230	240
hCP35274.2 (193)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of DKKL1-pending chris (193)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R6 (193)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R7 (193)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R3 (193)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS2 (193)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R8 (162)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS3 (162)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379 R4 (115)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R5 (115)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R2 (115)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS7 (115)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS4 (115)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
		Section 6						
		(241)	241	248				
hCP35274.2 (241)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of DKKL1-pending chris (241)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R6 (241)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R7 (241)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R3 (241)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS2 (241)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R8 (210)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS3 (210)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379 R4 (163)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R5 (163)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-R2 (163)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS7 (163)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					
Translation of clone 379-RS4 (163)			EKEALVPIQKATDSFTTELHPRVAFWIKLPPRRSHODALEG					

FIG. 4B